



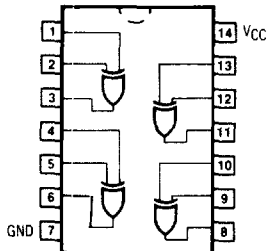
MC74AC86

Product Preview

Quad 2-Input Exclusive-OR Gate

- Outputs Source/Sink 24 mA

QUAD 2-INPUT
EXCLUSIVE-OR GATE



N SUFFIX
CASE 646-06
PLASTIC



D SUFFIX
CASE 751A-02
PLASTIC

DC CHARACTERISTICS OVER OPERATING TEMPERATURE RANGE (unless otherwise specified)

Symbol	Parameter	Value	Units	Test Conditions
I_{CC}	Maximum Quiescent Supply Current	40	μA	$V_{IN} = V_{CC}$ or Ground, $V_{CC} = 5.5 V, T_A = \text{Worst Case}$
I_{CC}	Maximum Quiescent Supply Current	4.0	μA	$V_{IN} = V_{CC}$ or Ground, $V_{CC} = 5.5 V, T_A = 25^\circ C$

AC CHARACTERISTICS (For Figures and Waveforms — See Section 3)

Symbol	Parameter	V_{CC}^* (V)	74AC			74AC		Units	Fig. No.
			$T_A = +25^\circ C$ $C_L = 50 pF$			$T_A = -40^\circ C$ to $+85^\circ C$ $C_L = 50 pF$			
			Min	Typ	Max	Min	Max		
t_{PLH}	Propagation Delay Inputs to Outputs	3.3 5.0		6.0 4.5			ns	3-5	
t_{PHL}	Propagation Delay Inputs to Outputs	3.3 5.0		6.5 4.5			ns	3-5	

*Voltage Range 3.3 is $3.3 V \pm 0.3 V$
Voltage Range 5.0 is $5.0 V \pm 0.5 V$

CAPACITANCE

Symbol	Parameter	Value Typ	Units	Test Conditions
C_{IN}	Input Capacitance	4.5	pF	$V_{CC} = 5.0 V$
C_{PD}	Power Dissipation Capacitance		pF	$V_{CC} = 5.0 V$

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